

Recent IBM Patents

March through June 1962

March 1962

Substrate Processing Apparatus	N. Theodoseau, G. J. Kahan, E. M. DaSilva and F. S. DeCormier	3,023,727
Vacuum Evaporation Apparatus	B. I. Bertelsen	3,024,761
Sorting Machine	A. E. Gray and L. A. Wilson	3,024,904
Single Cam Punch	J. C. Baker and C. S. Jackowski	3,024,972
Alpha-Numeric Hole Checking System	F. J. Droege, H. J. Klotz and M. P. Marcus	3,024,980
Three Image Buffer System for Card Reader	L. G. Allen	3,024,981
Tabulating and Computing Machine	M. Papo and E. Kouzmine	3,024,989
Error Detection and Correction System	A. C. Reynolds, Jr.	3,024,992
Sheet Handling Apparatus and Method	B. F. David and R. L. Demenna	3,025,051
Sheet Feeding Device	J. Gutteling	3,025,052
Program Device	O. L. Hibbard and E. F. Stoddard	3,025,368
Bistable Transistor Circuit	G. L. Clapper	3,025,415
Transistor Voltage Regulator	A. Hakimoglu	3,025,451
Electromagnetic Storage and Switching Arrangements	G. R. Hoffman and M. A. Maclean	3,025,500
Analog-to-Digital Converter System	R. J. Orrange	3,025,511
Positioning Device	R. V. Muffley	3,025,710
Absorption Edge Light Valve Indicator System	R. S. Schwartz and M. Genser	3,025,763
Data Transfer Apparatus	J. W. Haanstra, R. L. Haug, M. L. Lesser, L. D. Stevens and W. W. Woodbury	3,026,036
Set Bit Instructions	W. C. Foin, R. A. Gregory, F. B. Hartman and R. A. Trachy	3,026,037
Overlap Detector	J. I. Aweida and R. B. Humphrey	3,026,419
Synchronized Time System	J. P. Beesley	3,026,481
Plural Channel Record Read-Out Having Means for Changing Pulse Slicing Level in all Channels in Response to Pulse Presence in any Channel	J. R. Noonan	3,026,483
Pulse Generators	J. L. Walsh and P. M. Marino	3,026,487
Tape Position Sensing Device	D. N. Streeter	3,027,059
Overlap Mode Control	O. D. Evans and F. B. Hartman	3,027,081
Apparatus for Adding and Multiplying	S. C. Chao	3,027,082
Magnetic Transducer	J. D. Allen, Jr.	3,027,549

April 1962

Electro-Optical Devices	A. C. Koelsch, Jr. and D. R. Young	3,027,806
Printing Device	T. B. Tackett	3,027,988
Navigation System	P. J. DeGeorge and G. F. Kennard	3,028,078
Navigation System	P. J. DeGeorge	3,028,079
Remote Reader System	J. R. Knight	3,028,081
Division System	H. M. Sierra	3,028,086
Numeric Multiplier System	C. A. Walton	3,028,087
Multipurpose Logical Operations	B. Dunham	3,028,088
Cadmium Manganese Ferrosinell Composition	B. R. Eichbaum	3,028,336
Method of Preparing Ferrite Cores	J. M. Brownlow and B. R. Eichbaum	3,028,337
Binary Type Pulse Handling Device	J. C. Logue and J. L. Walsh	3,028,506
Frequency Shifting Clock	W. R. Hahs	3,028,552
Pulse Producing Circuit	H. R. Foglia	3,028,558
Switching Device	A. C. Thorpe	3,028,581
Information Storage Calculation System	J. E. Fernekees and L. R. Harper	3,028,583
Magnetic Storage Drum	A. H. Battison and C. B. Smith	3,028,584
Automatic Coupling and Uncoupling Apparatus for Machine Tools	D. G. Pittwood	3,028,770
Record Punching Machines	H. A. Panissidi	3,029,013
Card to Tape Converter	J. E. Dayger, R. J. Salani, Jr., R. R. Hailey, G. J. Laurer and P. V. Babel	3,029,019
Contact Driver Circuit	I. G. Akmenkalns	3,029,351

Frequency Shifting Self-Synchronizing Clock	J. C. Morphet, Jr.	3,029,389
Data Input-Output Control Mechanism	C. D. Southard	3,029,412
High Speed Magnetic Drum	E. A. Quade	3,029,416
Voltage Monitor	T. D. Koranye	3,029,423
Magnetic Character Sensing	T. R. Garrity	3,030,014
Sum Modulo Ten Accumulator	A. C. Reynolds, Jr.	3,030,020
Magnetic Core Circuit	R. K. Phillips and E. E. Clarke	3,030,610
Germanium Dice Gauging and Sorting Device	H. P. Luhn and H. Reichle	3,031,075
Parallel Adder	R. A. Cooper	3,031,140
High Density Magnetic Recording Tape	A. H. Eschenfelder	3,031,341
Preparation of Superconductive Tin by Electrodeposition	I. Tsu	3,031,400
Production of Uniform High Impurity Concentration Semiconductor Material	J. C. Marinace	3,031,404
Method of Producing Ferrite Bodies	H. A. DiMarco	3,031,407
Magnetic Transducer Mounting	J. J. Lynott	3,031,532
Logical Circuits Using Junction Transistors	R. A. Henle	3,031,584
Multi-Purpose Superconductor Computer Circuits	J. L. Anderson	3,031,586
Broad Band Frequency Divider	K. E. Schreiner	3,031,621

May 1962

Error-Free Data Input System	T. G. Leary	3,032,265
Variable Impedance Network for Automatic Gain Control Circuit	J. W. Beck	3,032,704
Automatic Gain Control Circuits	J. W. Beck	3,032,719
Balanced Speed-Varying Mechanism	R. Mouchon	3,033,052
Automatic Cable Lacing Machine	R. A. Fryklund	3,033,102
Sorting Machine	A. E. Gray	3,033,365
Counter	K. H. Knickmeyer	3,033,454
Multiplier System	H. M. Sierra	3,033,455
Multiplying Dividing Arrangements for Electronic Digital Computing Machines	C. Strachey	3,033,457
Computer Apparatus for Problems Wherein a Number of Variables are Subject to a Lesser Number of Restrictions	H. T. Marcy	3,033,460
Article Stacking Apparatus	F. M. Carroll and G. M. Gurley	3,033,564
Magnetic Core Multivibrator Having Variable Reset Means	A. Hakimoglu	3,034,072
Data Handling System	P. N. Armstrong, M. P. Marcus and R. J. Nelson	3,034,102
Data Comparing and Sorting Apparatus	F. O. Underwood	3,034,103
Data Switching Apparatus	M. P. Marcus	3,034,104
Apparatus for Manifesting Intelligence on Record Media	W. R. Maclay	3,034,109
Support Device	L. J. Poch and R. R. Schaffer	3,034,110
Data Storage System	A. S. Hoagland and L. D. Seader	3,034,111
Visual Indicator	C. J. Fitch	3,034,112
Trim and Clinch Device	H. K. Hazel	3,034,382
Apparatus for Applying Liquid Alloys	R. S. Schwartz	3,034,478
Collator Employing Table Lookup Comparison	H. A. Jurgens, D. K. Rex and D. G. O'Connor	3,034,644
Serial Operation of a Parallel Computer	J. M. Taylor	3,034,720
Document Inscribing Machine	J. A. Weidenhammer, E. J. Wroblewski, N. Watkins, S. J. Culveyhouse and L. Serenate	3,034,782
Sequence Analyzing Circuit	R. S. Sanford	3,035,247
Magnetic Recording System	R. A. Tuttle	3,035,255
Magnetic Tape Cleaner	W. S. Buslik and V. R. Witt	3,035,295
Ultra-Violet Lens	R. E. Tibbetts	3,035,490
Negative Resistance Semiconductor Circuit Utilizing Four-Layer Transistor	S. L. Miller	3,036,226
Electromagnetic Display Device	J. R. Knight	3,036,300
Resilient Magnetic Drum	D. D. Willard	3,036,304
Error Detecting System for a Digital Computer	D. A. Harrison and J. J. Selfridge	3,036,770
Indirect Addressing in an Electronic Data Processing Machine	J. L. Brown	3,036,773
Function Generators	W. L. McDermid, H. E. Petersen and G. L. Shelton, Jr.	3,036,775

Radar Display Sweep Generator for Converting Slant Range to Ground Range	E. N. Schroeder	3,036,776
Semiconductor Zone Refining and Crystal Growth	G. E. Brock and E. S. Wajda	3,036,898
Vacuum Evaporation Method	H. L. Caswell	3,036,933
Method for Producing Extremely Thin Line Masks	R. D. McNutt	3,036,962
Multiple Pole, Double Throw Switch	J. N. Cole	3,037,125
Multistable Circuit	J. C. Logue and R. A. Henle	3,037,127
Passive Element Binary Circuit Gate	E. J. Slobodzinski	3,037,128
Monostable Multivibrator	J. W. Skeritt	3,037,132
Checking System	J. S. Crosby, Jr.	3,037,191
Logical Circuit Element	A. E. Brennemann, Jr.	3,037,196
Magnetic Equals Circuit	N. F. Lockhart	3,037,197
Thin Film Switching Circuit	P. M. Grant	3,037,199
Magnetic Record Disc	J. J. Hagopian	3,037,205

June 1962

Method for Making Printed Circuits	X. Kollmeier	3,037,265
Combined Comparator and Indicator	J. H. Lego	3,037,687
Punching Machines for Punching Records While in Motion	A. F. Smith	3,037,688
Hydraulic Control Apparatus	T. F. Flavin and H. P. Wicklund	3,037,689
High Speed Card Punch	A. M. Tailleux	3,037,690
Record Bearing Instrumentalities	A. H. Dickinson	3,037,695
Toll Highway Recorder	W. F. Henry and J. J. Purcell	3,037,696
Error Controlled Recycling of the Readout of Stored Information	G. J. Saxenmeyer	3,037,698
Indexing Registers for Calculators	G. L. Clapper	3,037,700
Floating Decimal Point Arithmetic Control Means for Calculator	H. M. Sierra	3,037,701
Apparatus for Guiding and Stacking Continuous Forms	T. H. Anderson, T. F. Flavin and H. P. Wicklund	3,037,768
Photosensitive Record	M. P. Prater	3,037,863
Magnetic Erase Means	C. T. Young and S. Bepalko	3,038,036
Threshold Counter with Parallel Inputs	G. L. Clapper	3,038,091
Synchronized System of Oscillator Drivers	G. L. Clapper	3,038,129
Data Transfer and Control Apparatus	G. J. Laurer and R. S. Washington	3,038,145
Data Selecting Apparatus	E. J. Grenchus	3,038,147
Apparatus for Increasing the Storage Capacity of a Magnetic Drum	J. B. Tait and L. C. Kaye	3,038,148
Electrical Switching Apparatus	F. A. Foss	3,038,657
Electro-Optical Device	J. A. O'Connell and B. Narken	3,039,005
Digital to Analogue Conversion Servosystem	R. J. Weidner	3,039,030
Document Reading and Sorting Machine	R. E. Edminster, E. L. Fritz, R. J. Furr, E. M. Valehrach and J. A. Weidenhammer	3,039,682
Pulse Frequency Divider Using Synchronized Monostable Multi-Triggering Timing Circuit in Synchronized Blocking Oscillator	R. L. Horton	3,040,185
High Speed, Sensitive Binary Trigger Utilizing Two Series Connected Negative Resistance Diodes with Variable Bias Feedback	F. K. Buelow	3,040,190
Logic, Exclusive OR, and Shift Register Circuits Utilizing Directly Connected Cascade Transistors in "Tree" Configuration	E. J. Slobodzinski	3,040,192
Binary Trigger Having Two Phase Output Utilizing And-Invert Logic Stages	G. A. Maley	3,040,198
Register for High Frequency Phase Jitter	A. Brunschweiler and L. H. Thompson	3,040,258
Transistorized Amplifier	R. J. Weidner	3,040,264
Data Storage System	J. S. Crosby, Jr. and F. Stern-Montagny	3,040,299
Data Selector	E. J. Rabenda and M. A. Every	3,040,300
Tape Reading Apparatus	G. N. West	3,040,307
Margin Stop Mechanism	T. H. Toepfen	3,040,859
Record Feeding Devices	J. H. Bakelaar and V. L. Hudson	3,041,069
Xerographic Process	R. M. Blakney, D. E. Bode, J. H. Neyhart and E. R. Potok	3,041,167
Data Storage Circuitry	W. N. Carroll	3,041,474
Display Device	A. B. Cistola	3,041,491
Current Supply Apparatus	R. E. Kuba	3,041,523
Pulse Synchronizer	P. I. Prentky	3,041,546
Electronic Translating Means	R. Betts	3,041,598